

APPLICANT(S): BIRK, Yitzhak et al.
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AMENDMENTS TO THE CLAIMS

Kindly amend the claims as follows:

1. (Previously Presented) A system for providing the output of a computer to a television set via wireless channel within a building, the system comprising:

a multi-polarization transmission antenna unit;

a transmission processor connected between said computer and said transmission antenna unit for converting said computer output to a composite video signal, for upconverting said composite video signal to a carrier frequency not within a range reserved for television transmissions and for providing said upconverted signal to said transmission antenna for transmission through said multi-polarization antenna unit within said building;

a reception antenna unit, located away from said transmission antenna unit, having at least one set of two, differently polarized reception antennas for receiving said transmitted signal;

a reception processor connected between said reception antenna unit and said television set for processing and combining the output of said two reception antennas of each said at least one set and for adapting said processing in accordance with the quality of said output.

2. (Original) A system according to claim 1 and wherein said reception processor includes means for measuring said quality during non-image periods and for adapting said processing when said quality is lower than a predetermined threshold.

3. (Cancelled)

4. (Original) A system according to claim 1 and wherein said reception antenna unit is a multi-polarization antenna.

5 - 6. (Cancelled)

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7. (Original) A system according to claim 1 and wherein said reception processor includes:

one adaptable antenna processing unit per set of reception antennas, wherein each said antenna processing unit includes a control unit for controlling at least one of the relative phase shift and relative attenuation between the outputs of said set of reception antennas and a combiner for combining the processed outputs of said set of reception antennas;

a downconverter for converting the output of at least one of said combiners to a television signal to be provided to said television set; and

a quality feedback unit for measuring the quality of said television signal and for selecting control values for said control unit accordingly.

8. (Previously Presented) A system according to claim 7 and wherein said one antenna processing unit per set of reception antennas comprises two antenna processing subunits and a combiner for combining the output of said antenna processing subunits.

9. (Previously Presented) A system according to claim 7 and wherein said one antenna processing unit per set of reception antennas comprises two antenna processing subunits a selector for selecting one the outputs of said antenna processing subunits.

10 - 11. (Cancelled)

12. (Original) A system according to claim 7 and wherein said quality feedback unit comprises input units for receiving quality definitions from a user.

13. (Currently Amended) A reception unit for a system which transmits the output of a computer to a television set via wireless channel within a building, the reception unit comprising:

a multi-polarization reception antenna unit having at least one set of two differently polarized reception antennas for receiving transmitted output of said computer;

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a reception processor connected between said reception antenna unit and said television set for processing and combining the multi-polarized output of said two antennas of each said at least one set and for adapting said processing in accordance with the quality of said multi-polarized output.

14. (Original) A reception unit according to claim 13 and wherein said reception processor includes means for measuring said quality during non-image periods and for adapting said processing when said quality is below a predetermined threshold.

15. (Original) A reception unit according to claim 13 and wherein said reception processor includes:

one adaptable antenna processing unit per set of reception antennas, wherein each said antenna processing unit includes a control unit for controlling at least one of the relative phase shift and relative attenuation between the outputs of said set of reception antennas and a combiner for combining the processed outputs of said set of reception antennas;

a downconverter for converting the output of at least one of said combiners to a television signal to be provided to said television set; and

a quality feedback unit for measuring the quality of said television signal and for selecting control values for said control unit accordingly.

16. (Previously Presented) A system according to claim 15 and wherein said one antenna processing unit per set of reception antennas comprises two antenna processing subunits and a combiner for combining the output of said antenna processing subunits.

17. (Previously Presented) A system according to claim 15 and wherein said one antenna processing unit per set of reception antennas comprises two antenna processing subunits and a selector for selecting one the outputs of said antenna processing subunits.

18. (Original) A system according to claim 15 and wherein said quality feedback unit comprises input units for receiving quality definitions from a user.

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19 - 21. (Cancelled)